



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Adress: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,075	04/12/2005	Hiroko Kuno	050136	2558
23850	7590	05/28/2008	EXAMINER	
KRATZ, QUINTOS & HANSON, LLP			JACKSON, MONIQUE R	
1420 K Street, N.W.			ART UNIT	PAPER NUMBER
Suite 400			1794	
WASHINGTON, DC 20005				
MAIL DATE DELIVERY MODE				
05/28/2008 PAPER				

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/531,075	<b>Applicant(s)</b> KUNO, HIROKO
	<b>Examiner</b> Monique R. Jackson	<b>Art Unit</b> 1794

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 28 April 2008.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,2 and 5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,2 and 5 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/DS/06)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____   | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/27/08 has been entered.

2. Claims 1, 2 and 5 are pending in the application. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 2 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Dobler et al (WO01/59003, see USPN 7,169,834 for English equivalent.) Dobler et al teach a composition containing transparent thermoplastic polymers and surface modified oxide particles having a particle size of less than 200nm, suitable for the preparation of products wherever diathermancy is undesirable (Abstract.) Dobler et al teach that the transparent, thermoplastic polymers used are polycarbonates, aromatic polyesters, transparent thermoplastic polyurethanes, transparent (meth)acrylates and polyolefins such as transparent polypropylene (as claimed) and that the oxide particles are antimony-doped tin oxide particles preferably present in a quantity of 0.01 to 30 parts by weight, per 100 parts by weight of the transparent, thermoplastic polymer (*which*

*reads upon the claimed heat shield filler and content range; Col. 3, lines 28-48; Col. 4, lines 1-4 and 13-17; Col. 5, lines 31-40.)* Dobler et al teach that the particles can be kneaded into the transparent thermoplastic polymer to produce the composition and that the composition can be utilized in the manufacture of sheets, films, glazing systems, roofing systems or other products wherein the composition can be processed by extrusion or injection molding, or can be optionally coextruded with one or more coextruded layers (*reads upon instant claim 5 wherein the composition is the claimed heat shield layer and the one coextruded layer is the single film or board matrix material to which the heat shield layer is laminated to the surface thereof;* Col. 2, lines 41-42; Col. 3, lines 39-61; Col. 8, lines 6-16 and 37-58.) Dobler et al also teach that the composition can be utilized in multi-coat systems wherein the multi-coats can be applied at the same time such as by coextrusion or sandwich molding, or can be applied to the final shaped basic form such as by lamination with a film (*also reads upon instant claim 5;* Col. 8, lines 6-16.) Dobler et al teach that the composition exhibits as high an absorption as possible in the near infrared (NIR) range between 750 and 2500 nm and at the same time exhibits as high a transparency as possible in the visible light range between 400 and 750nm, with data reported for ITO particles over a wavelength of 300nm to 1100nm (Col. 2, lines 27-35.) With respect to Claim 2, though Dobler et al do not specifically report the transmittance data for ATO in polypropylene, the Examiner takes the position that the invention taught by Dobler, containing the same composition as instantly claimed, would inherently provide the same transmittance properties as instantly claimed.

***Response to Arguments***

5. Applicant's arguments with respect to claims 1, 2 and 5 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monique R. Jackson whose telephone number is 571-272-1508. The examiner can normally be reached on Mondays-Thursdays, 10:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Monique R Jackson/  
Primary Examiner, Art Unit 1794  
May 23, 2008